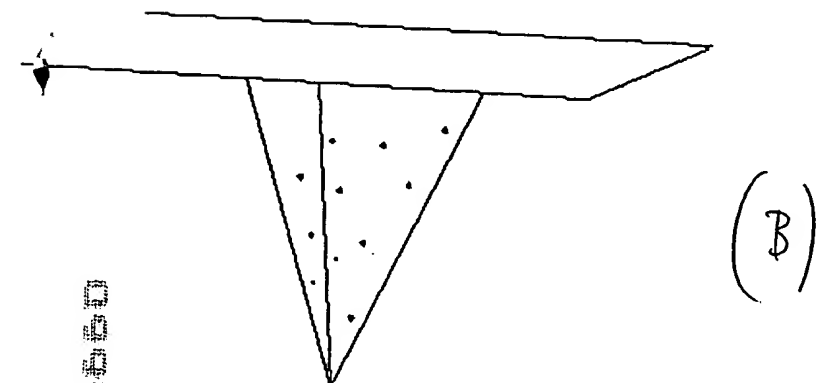


electrophoretically  
deposit catalyst



CVD growth

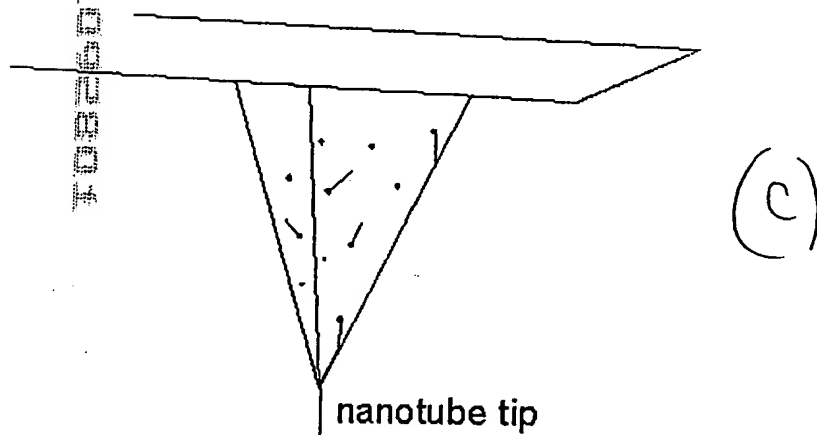


Figure 1

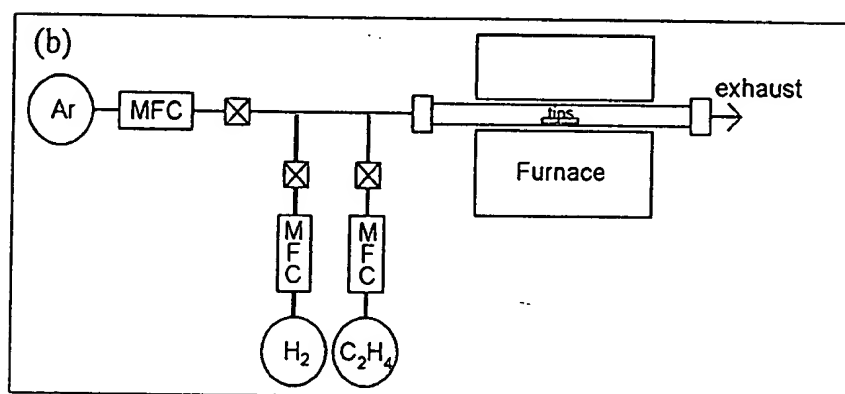
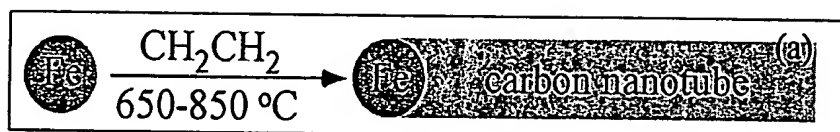


FIG. 2a, b

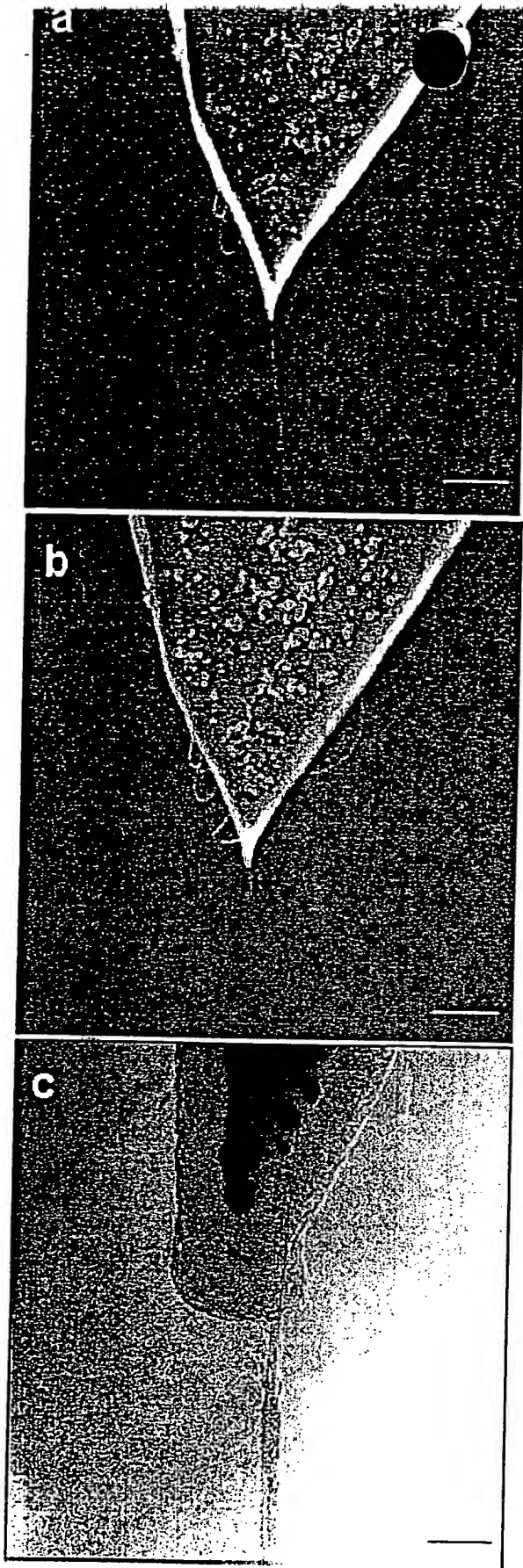
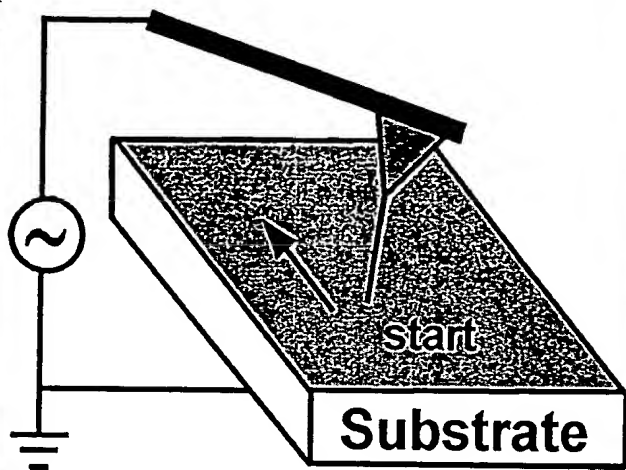
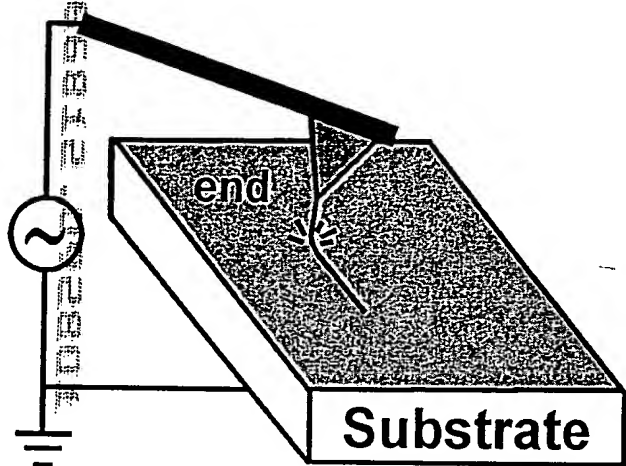


Figure 3

(a)



(b)



(c)

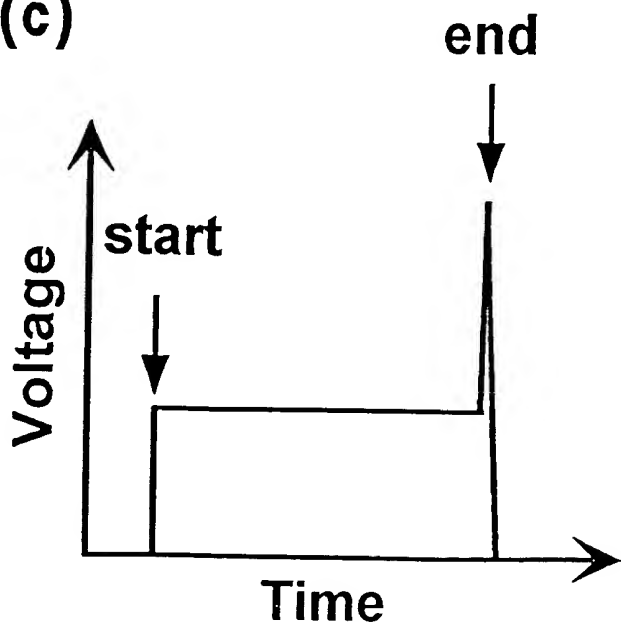


Figure 4

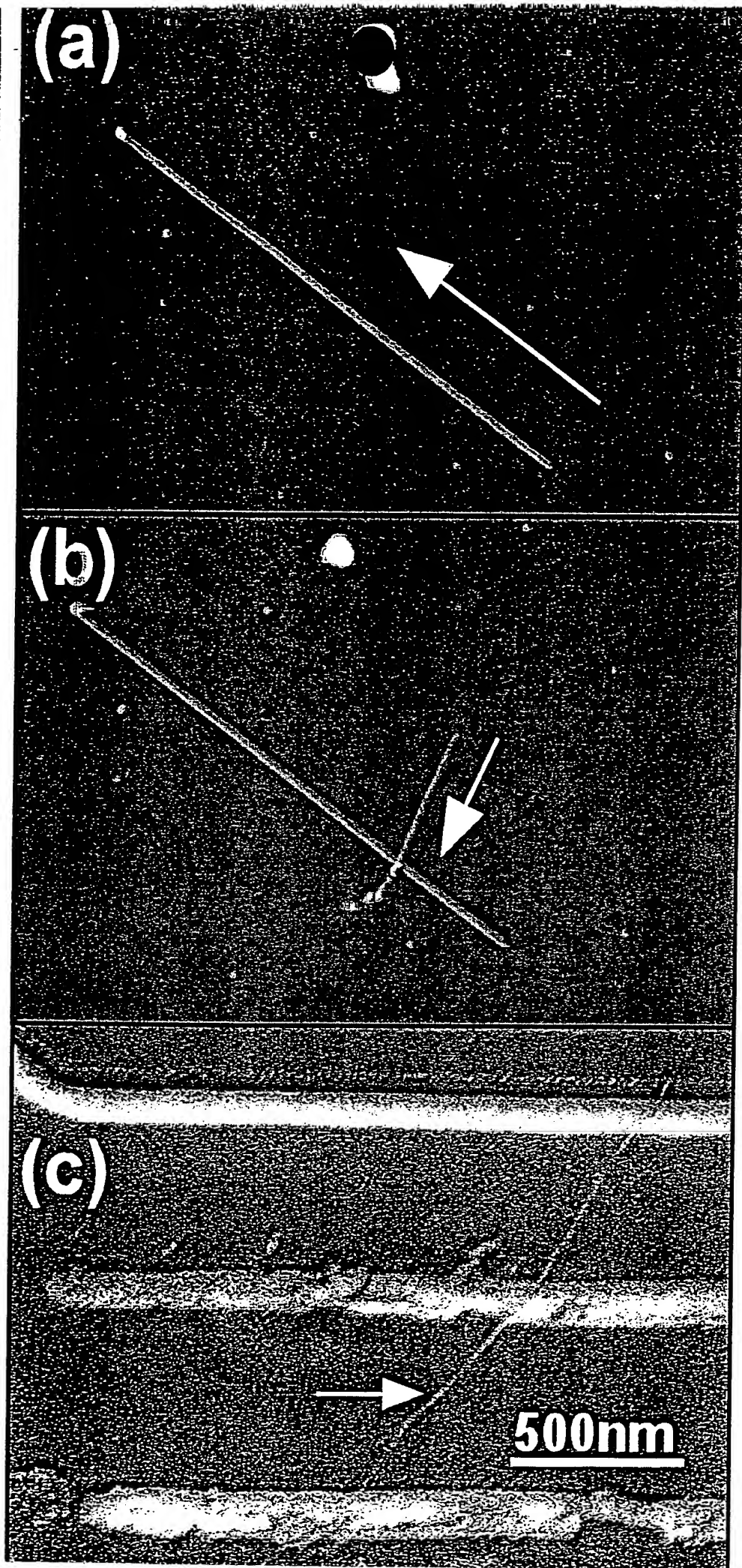


Figure 5

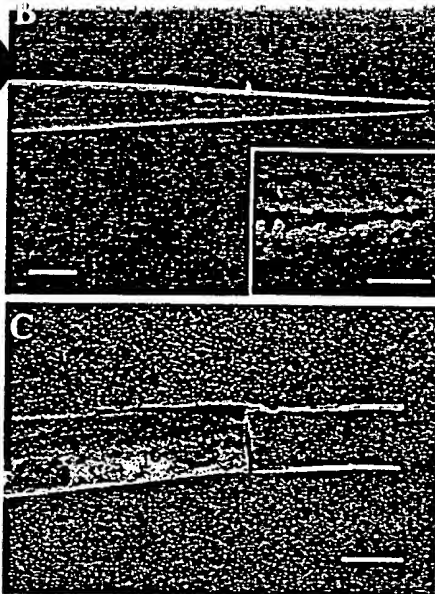
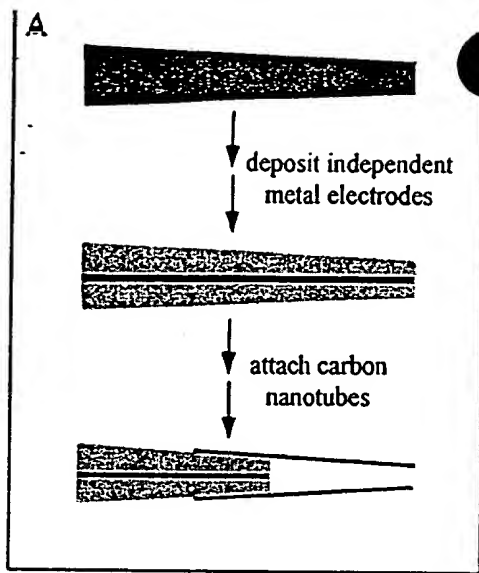
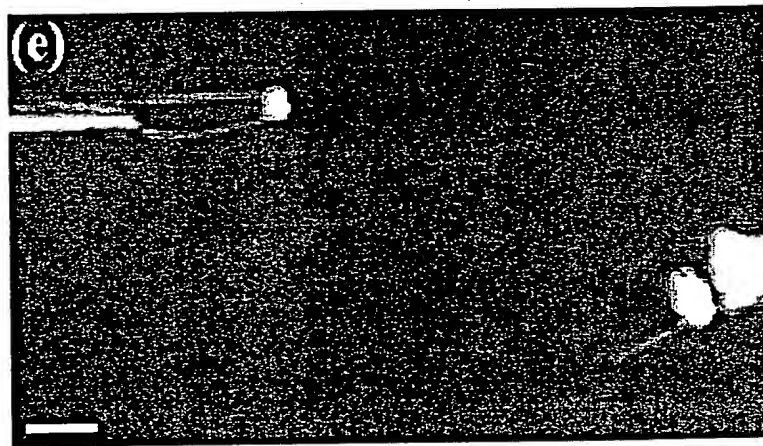
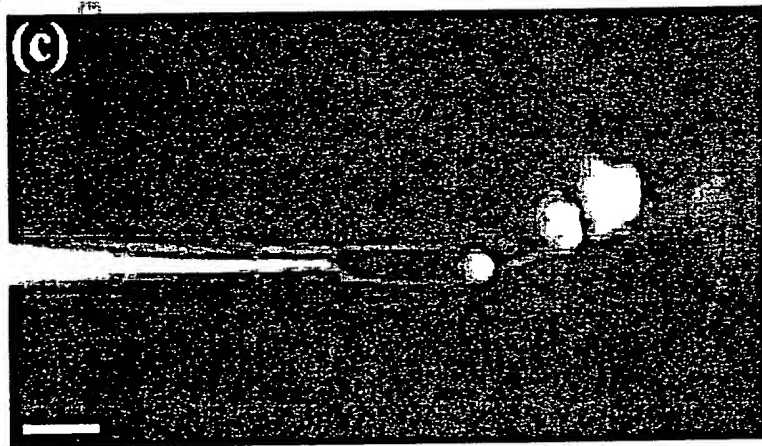
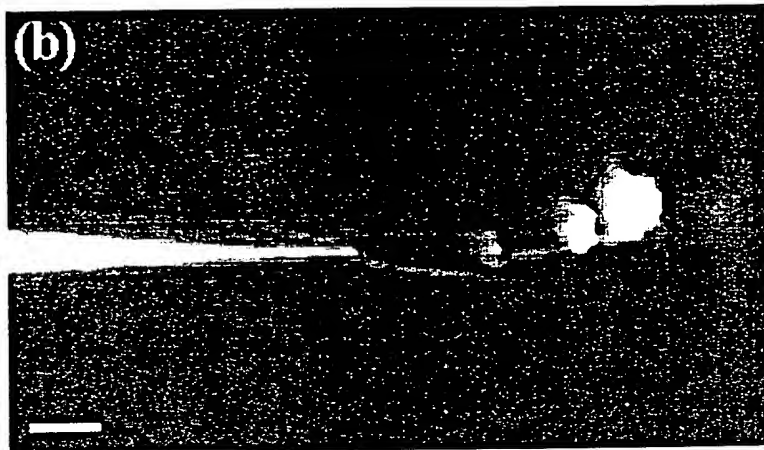
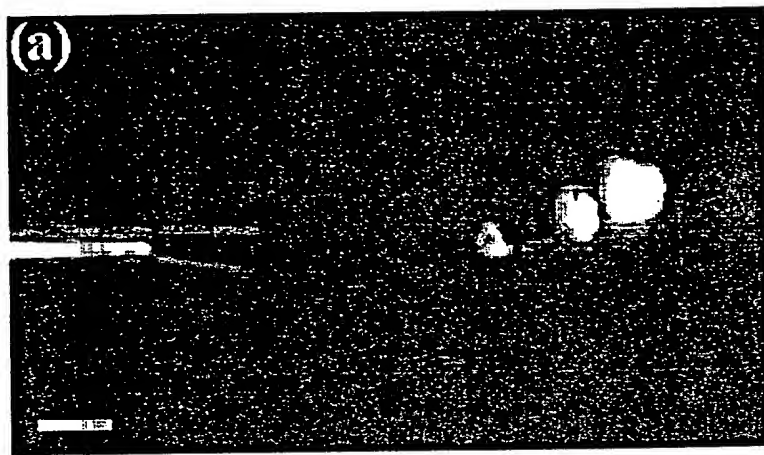


Figure 6

09565812.092804



Figure 8



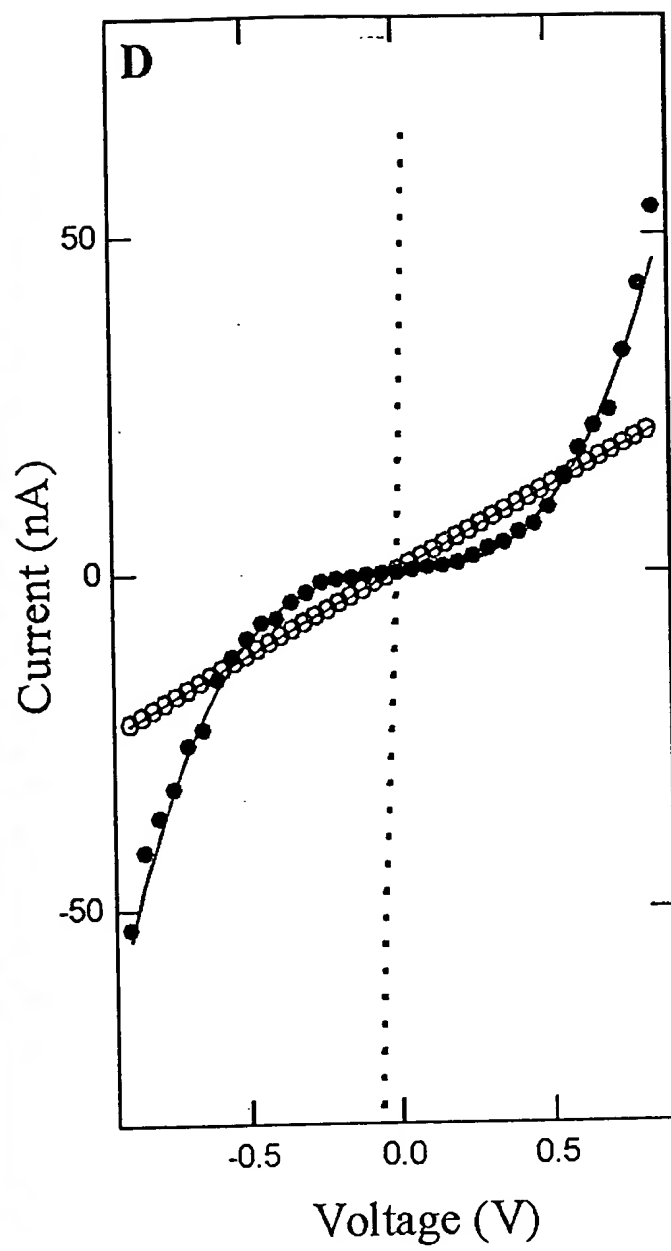
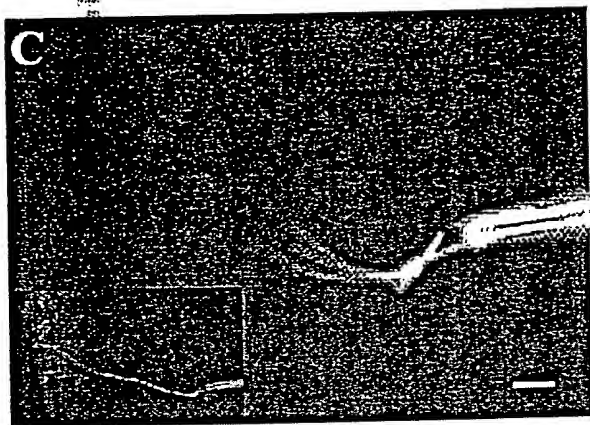
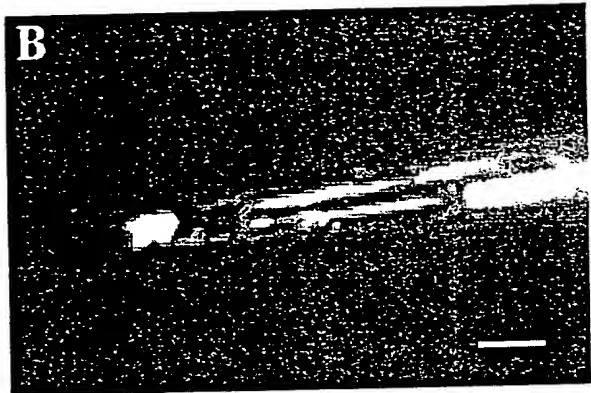
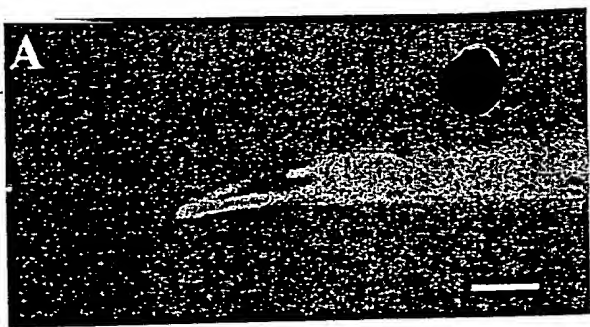
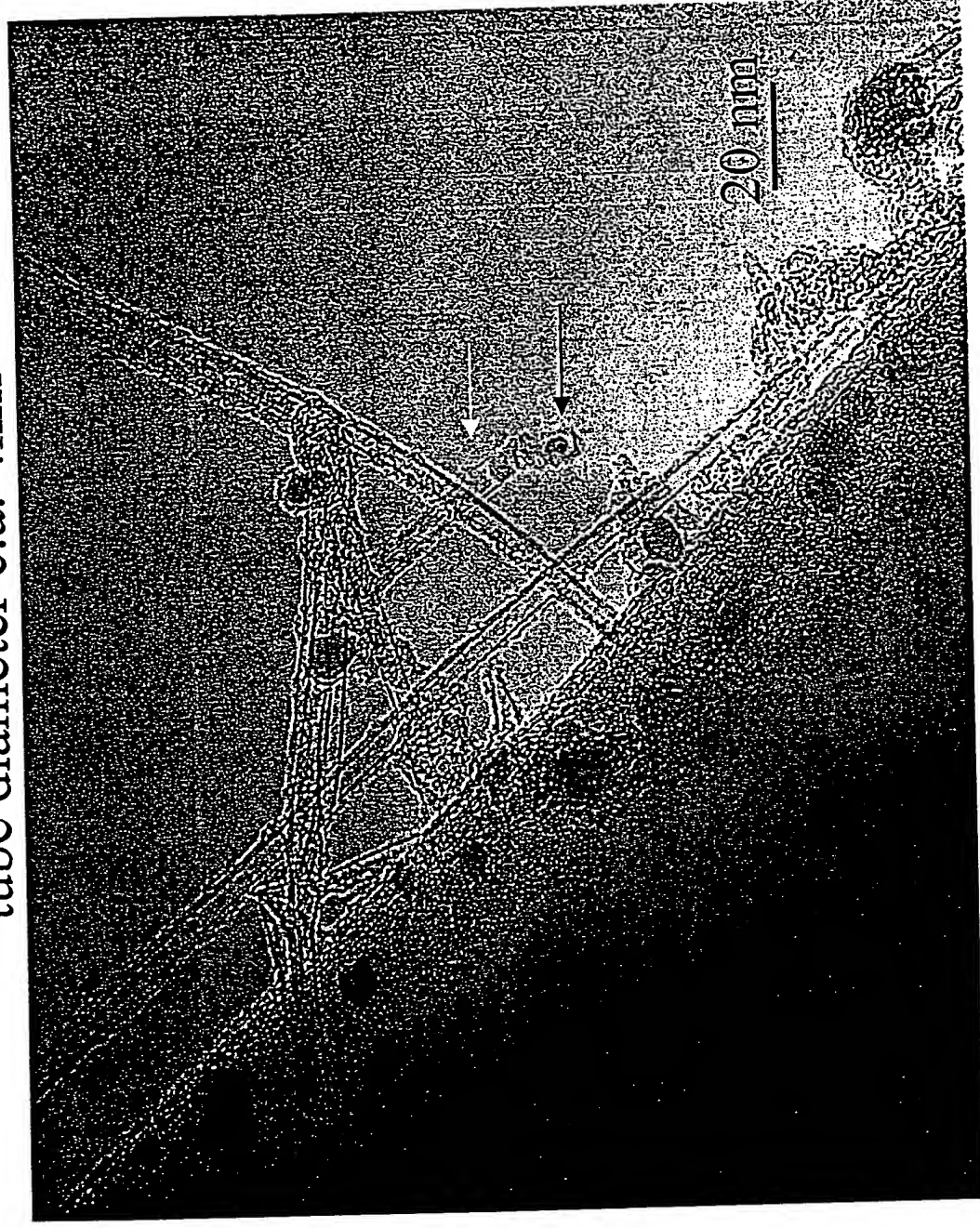


Figure 9

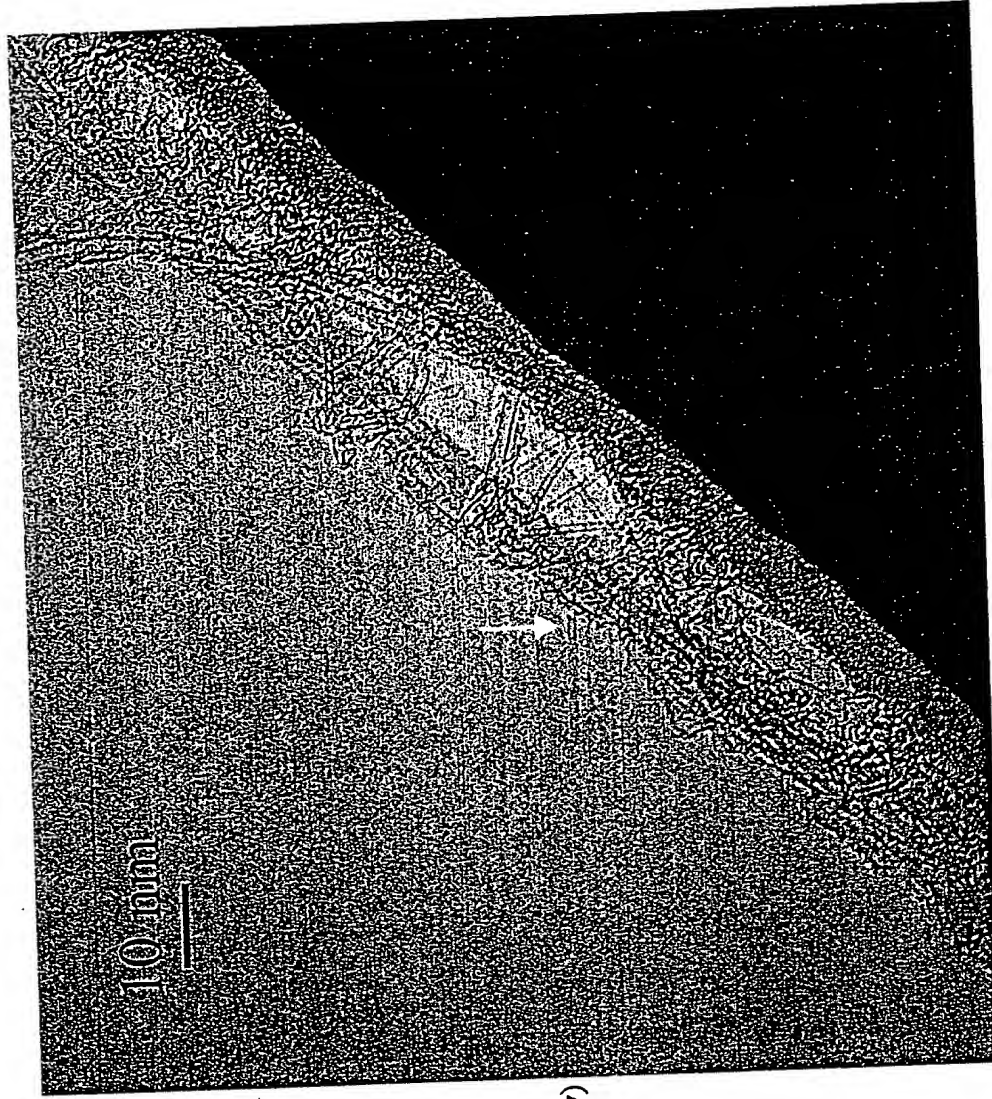
TEM picture of  $C_2H_4$  CVD large tube synthesis  
tube diameter c.a. 4nm



Catalyst: FeOx 6L (black arrow) Majority of catalyst size: 4 - 6 nm  
Carbon Source:  $C_2H_4$ , SWNT (white arrow) Majority of SWNT size: 4 nm

Fig. 10

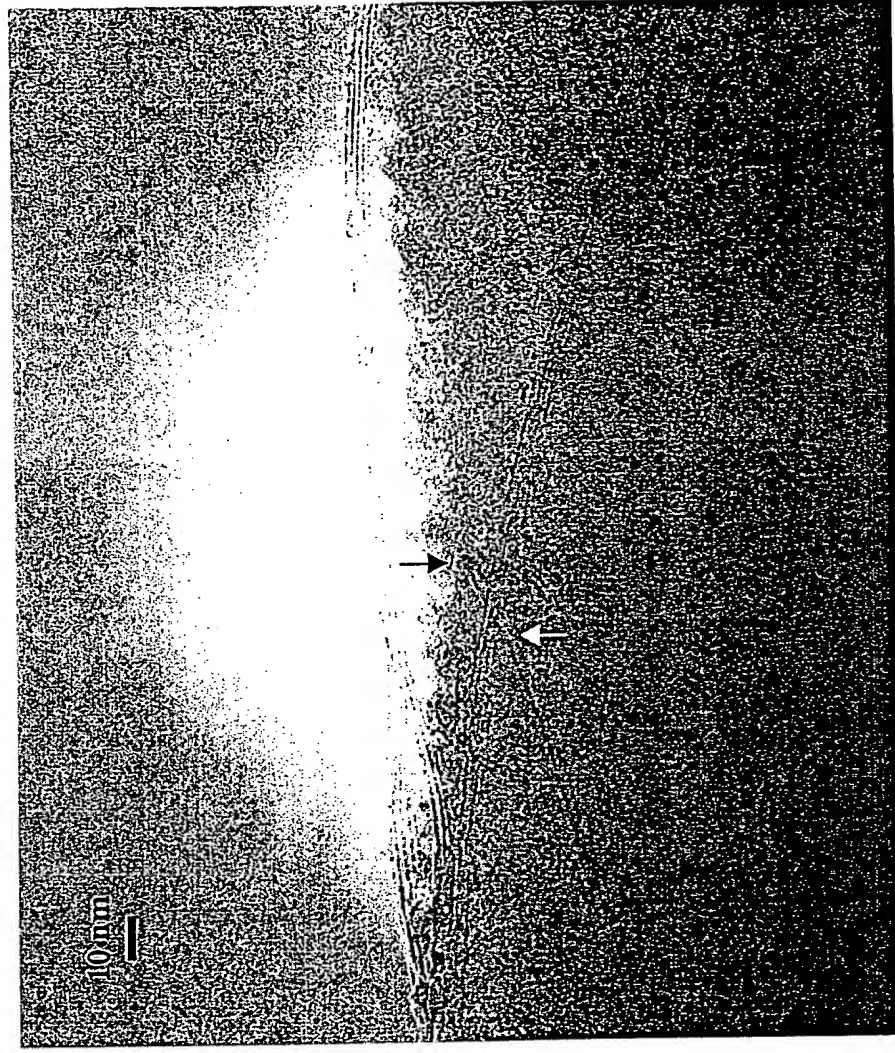
108260 21895660



Catalyst: FeOx 2L  
Carbon source: CO  
0.8 nm SWNT (white arrow)

Fig. 11

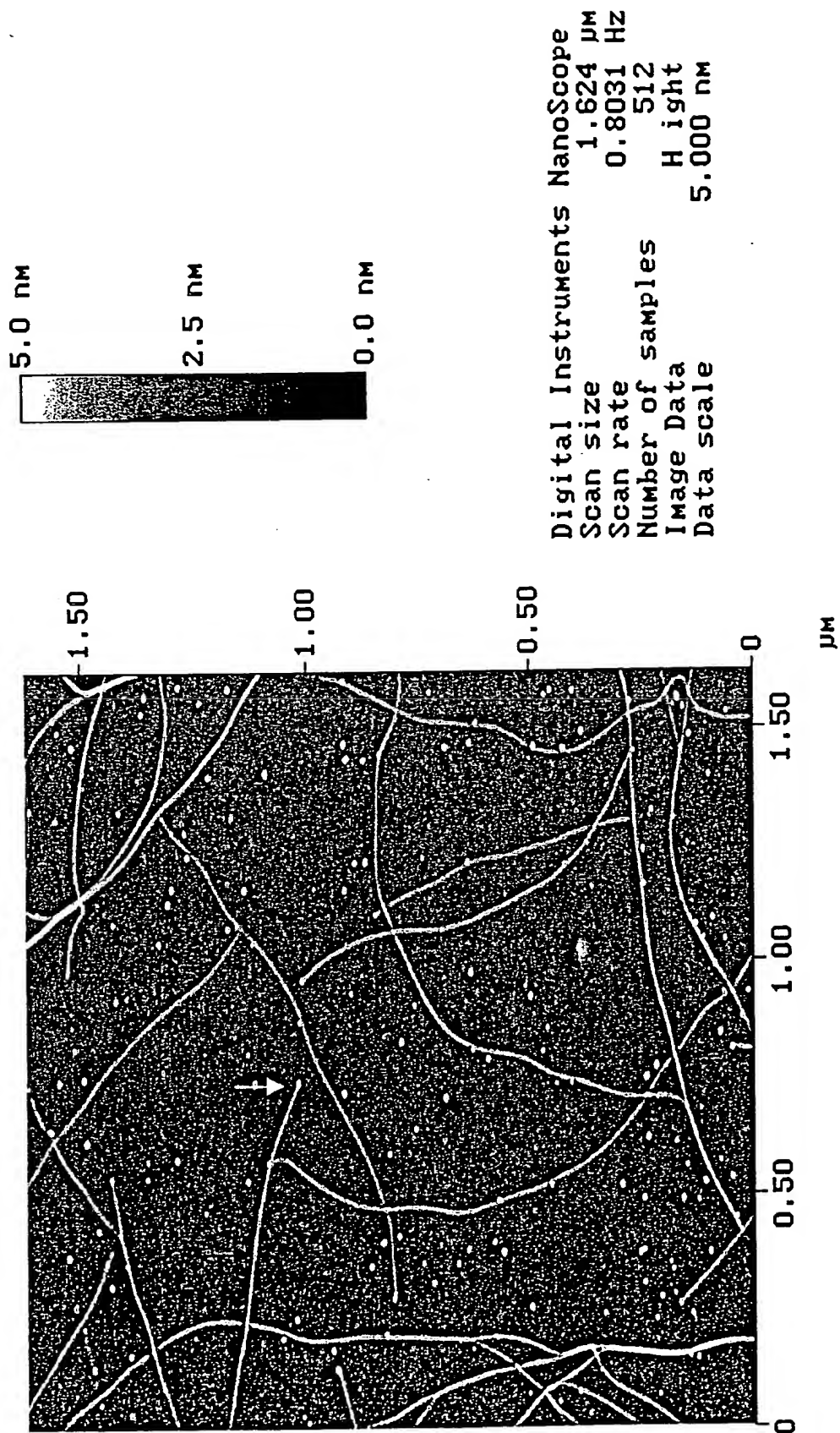
108250~21899660



Catalyst: FeOx 2L (black arrow)  
Carbon source: CO, SWNT (white arrow)  
Majority of catalyst size: 1.5 – 3.5 nm  
Majority of nanotube size: 1.3 – 2.3 nm

Fig. 12

108260-21899660



Catalyst: FeOx 6L (white arrow)  
Carbon source:  $\text{C}_2\text{H}_4$ , SWNT (black arrow)

Fig. 13

103260 27893660

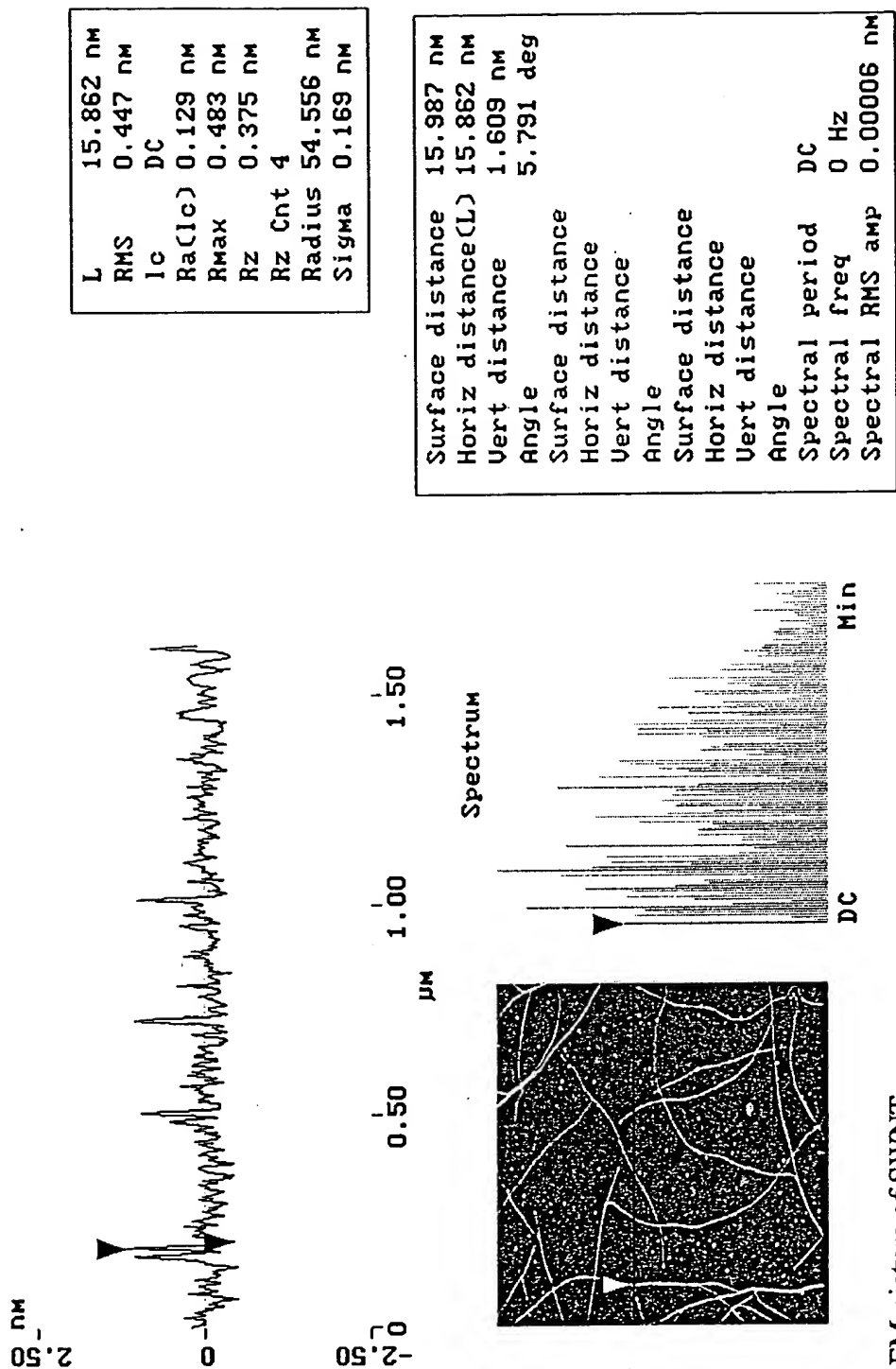


Fig. 14

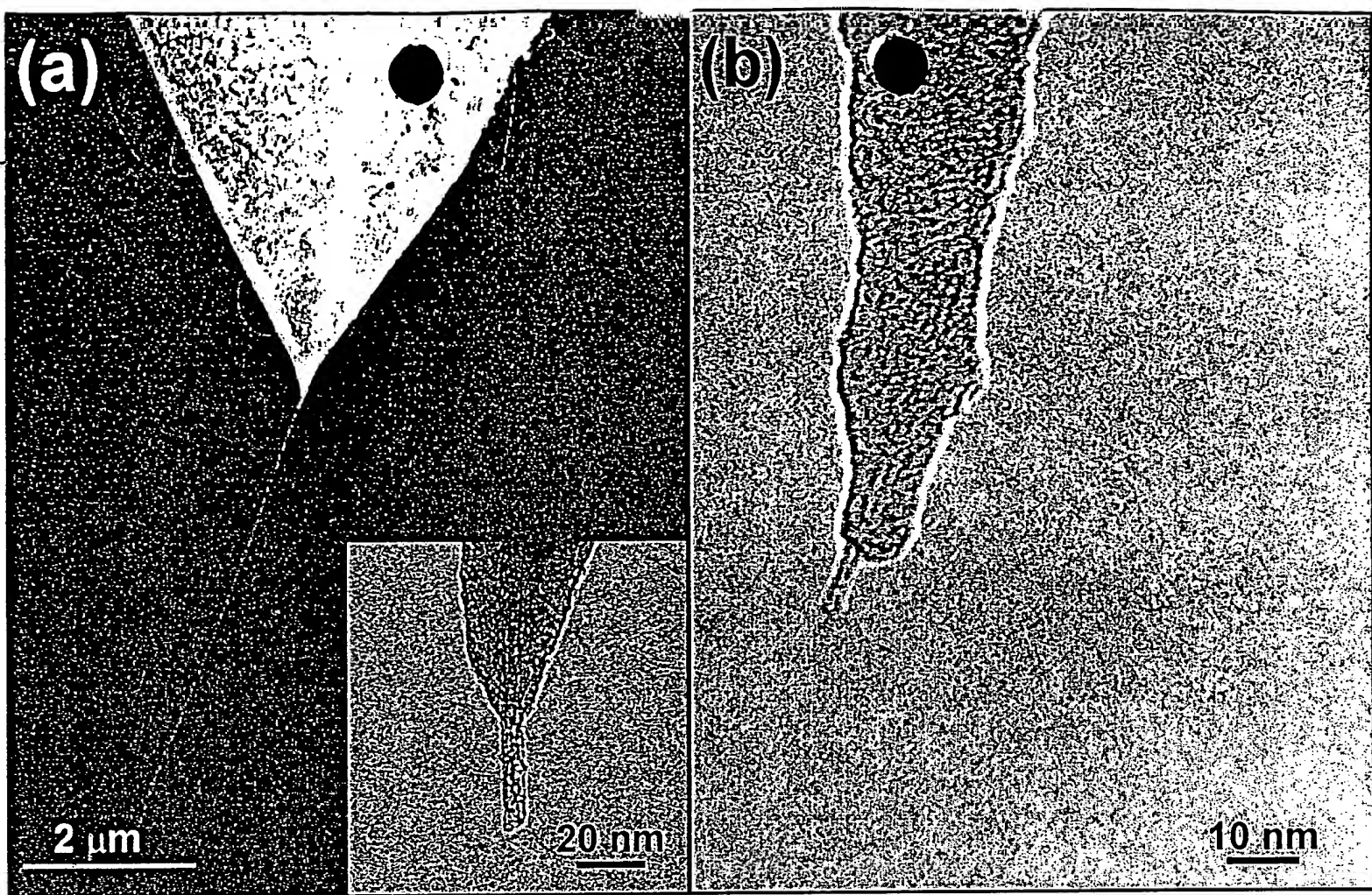


Figure 15